

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P732643

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-SQR-B2750-W2D-CA125-3500K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

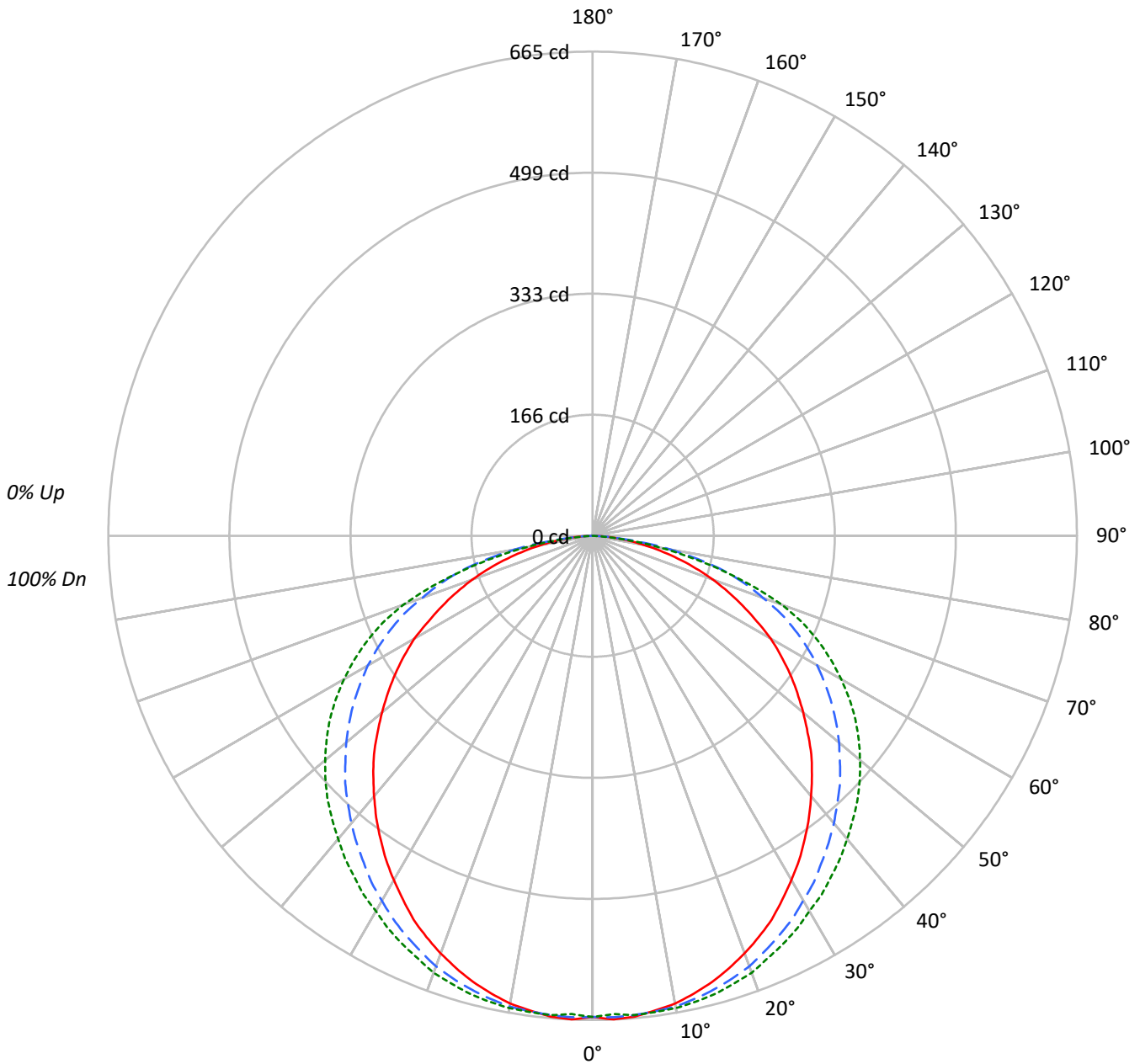
Lumens per Lamp: N/A
Luminaire Lumens: 2091.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48																			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41																			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35																			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1865	1865	1865
5°	1878	1872	1872
10°	1870	1882	1888
15°	1854	1885	1903
20°	1833	1890	1918
25°	1812	1887	1927
30°	1779	1886	1941
35°	1750	1888	1968
40°	1720	1899	2003
45°	1695	1918	2053
50°	1657	1939	2106
55°	1628	1971	2168
60°	1594	2011	2225
65°	1520	2048	2281
70°	1443	2053	2279
75°	1322	2046	2011
80°	1130	1747	1559
85°	887	988	583



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	3.0
10°-20°	181.4	8.7
20°-30°	277.4	13.3
30°-40°	340.0	16.3
40°-50°	365.7	17.5
50°-60°	351.4	16.8
60°-70°	292.6	14.0
70°-80°	179.6	8.6
80°-90°	40.0	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	521.6	24.9
0°-40°	861.7	41.2
0°-60°	1578.8	75.5
0°-90°	2091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	663	657	661	661	661	63
15°	634	632	645	649	651	179
25°	582	587	606	613	619	268
35°	508	521	548	563	571	318
45°	425	444	480	503	514	327
55°	331	359	400	428	440	296
65°	228	262	307	332	342	226
75°	121	158	188	187	184	128
85°	27	41	30	21	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	660.8	660.8	660.8	660.8	660.8
2.5°	664.9	658.7	661.9	660.8	657.6
5°	662.9	656.6	660.8	660.8	660.8
7.5°	657.6	652.4	658.7	659.7	659.7
10°	652.4	648.1	656.6	657.6	658.7
12.5°	643.9	640.7	651.3	653.4	655.4
15°	634.4	632.4	644.9	649.2	651.3
17.5°	622.9	623.9	637.6	642.9	644.9
20°	610.2	613.4	629.2	634.4	638.6
22.5°	596.5	600.7	617.6	623.9	628.1
25°	581.7	587.0	605.9	613.4	618.6
27.5°	563.8	572.2	593.4	602.9	608.1
30°	545.9	555.4	578.6	590.2	595.4
32.5°	528.0	538.5	564.9	576.4	584.9
35°	508.0	520.7	548.0	562.7	571.2
37.5°	488.0	502.7	532.2	549.0	558.5
40°	466.8	482.7	515.3	534.3	543.7
42.5°	445.8	463.7	497.5	518.5	529.0
45°	424.7	443.7	480.5	502.7	514.3
47.5°	400.5	423.7	460.5	485.8	497.5
50°	377.3	402.6	441.5	468.0	479.5
52.5°	354.1	380.5	421.5	449.0	460.5
55°	330.9	359.3	400.5	427.8	440.5
57.5°	306.6	336.1	378.3	406.8	418.3
60°	282.4	313.0	356.3	382.5	394.1
62.5°	253.9	289.8	332.0	358.3	368.8
65°	227.6	262.4	306.6	332.0	341.5
67.5°	201.3	237.1	280.3	303.5	311.9
70°	174.9	210.8	248.7	270.8	276.1
72.5°	148.6	184.4	220.3	232.9	230.8
75°	121.2	158.1	187.6	186.6	184.4
77.5°	94.9	130.7	148.6	141.2	138.1
80°	69.5	104.4	107.5	100.2	95.9
82.5°	47.4	74.8	67.5	59.0	54.8
85°	27.4	41.0	30.5	21.0	18.0
87.5°	11.5	10.5	3.2	3.2	2.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)